2000 REGULATORY INFORMATION CONFERENCE



REGULATORY TRENDS & CURRENT NRR INITIATIVES

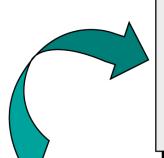
SAMUEL J. COLLINS
Director, Office of Nuclear Reactor Regulation
March 28, 2000



Performance Goals

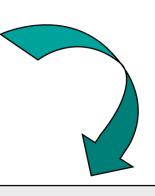
- 1. Maintain Safety
- 2. Increase Public Confidence
- 3. Reduce Unnecessary Regulatory Burden
- 4. Make NRC Activities and Decisions more Effective, Efficient, and Realistic

NRR Performance Management



1. Operational Planning

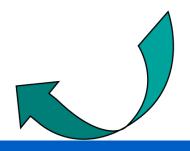
- Effectiveness Review
- Operating Plan
 - Purpose
- Levels
- MonitorsMetrics
- Resource Allocation
- Accountability



3. Management Oversight

- Process of reviewing performance data
- Performance data analysis
- Communication about out-ofstandard results
- Decision making about emergent work

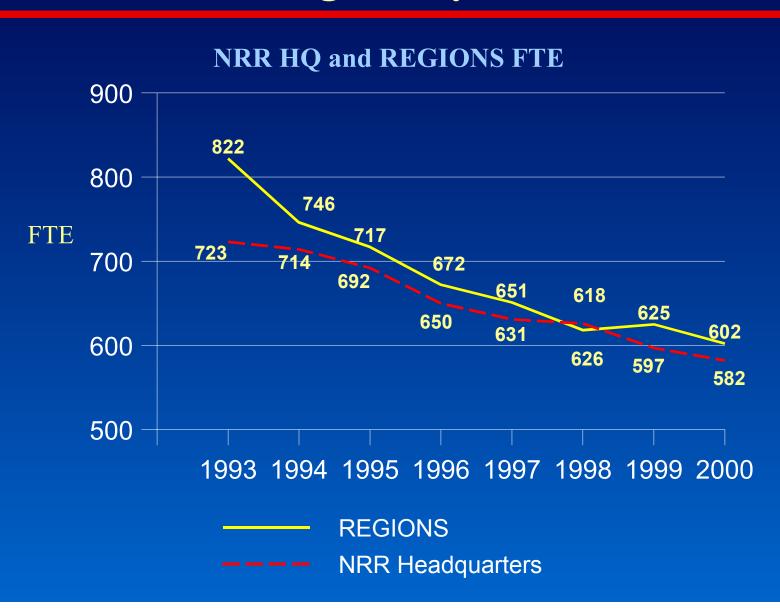
Performance Management Phases at NRR



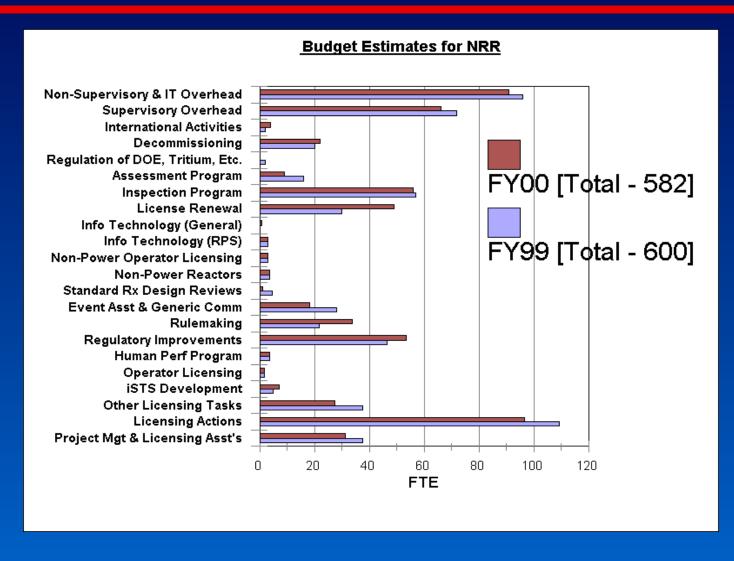
2. Reporting

- Periodicity
- Levels
 - Executive
 - Leadership
 - Operational
- Formats
- Structure
- Accountabilities for communicating results





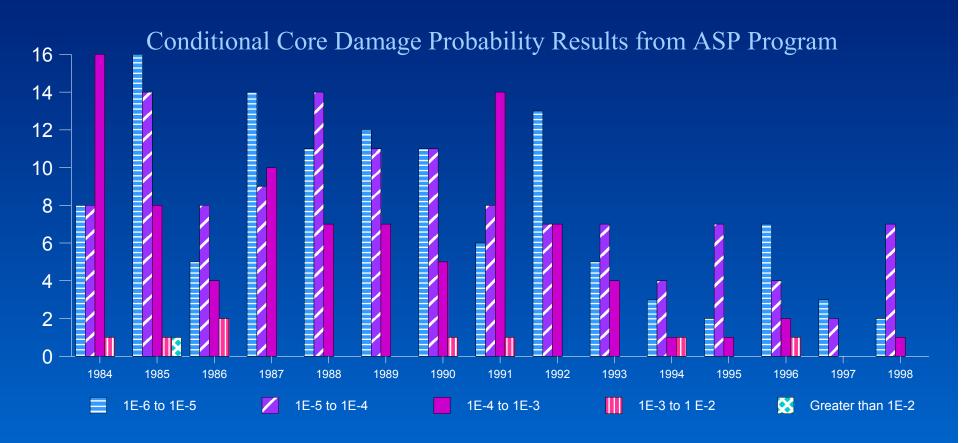






Maintaining Safety

■ Goal - One or less significant precursors (i.e., events with > 1E-3 probability of leading to an accident)

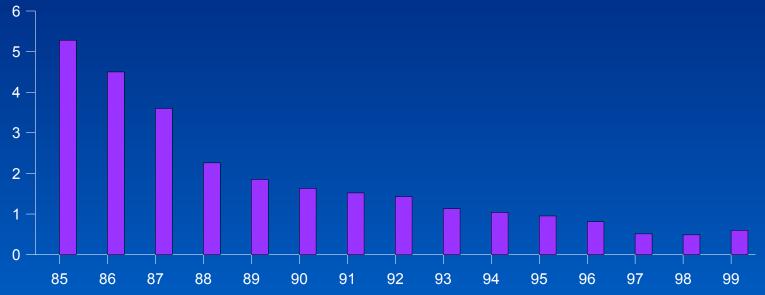




Maintaining Safety

 Goal - No Statistically Significant Adverse Industry Trends in Safety Performance

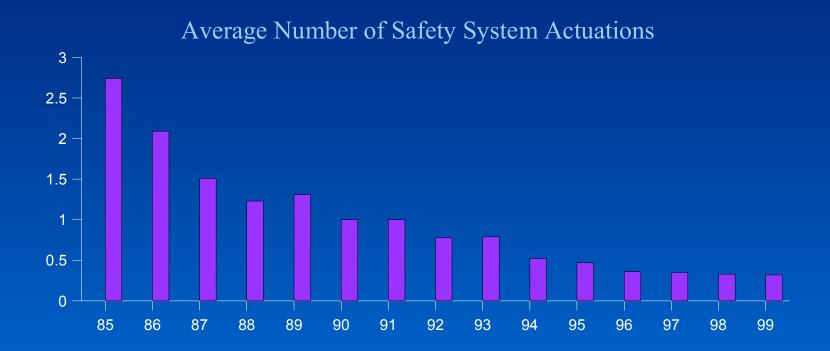






Maintaining Safety

 Goal - No Statistically Significant Adverse Industry Trends in Safety Performance

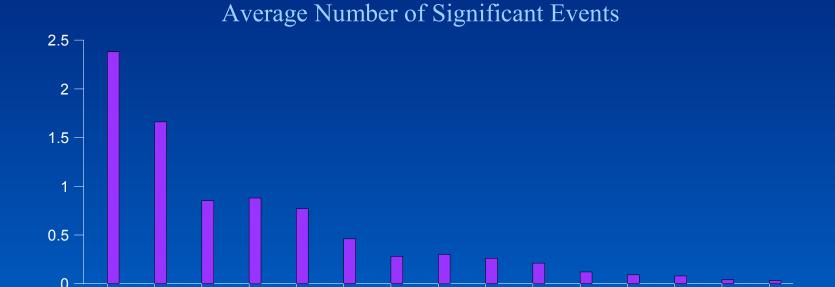




Performance Trends

Maintaining Safety

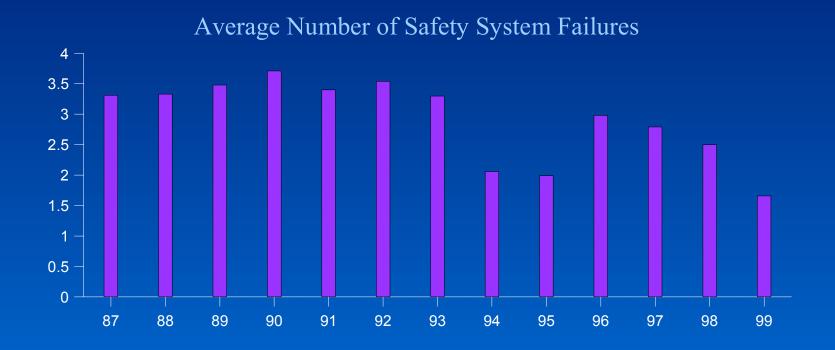
 Goal - No Statistically Significant Adverse Industry Trends in Safety Performance





Maintaining Safety

 Goal - No Statistically Significant Adverse Industry Trends in Safety Performance

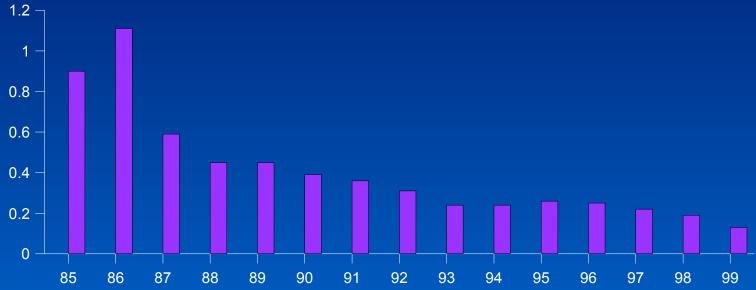




Maintaining Safety

■ Goal - No Statistically Significant Adverse Industry Trends in Safety Performance







Performance Goal Measures

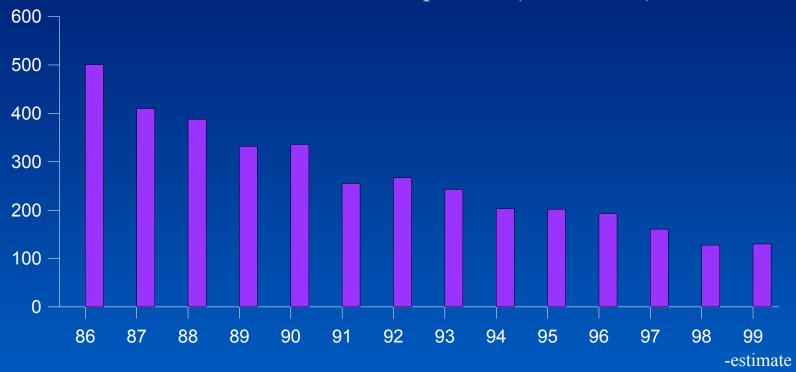
Maintaining Safety

- No events resulting in overexposures exceeding regulatory limits
- No more than 3 releases to environment that exceed regulatory requirements
- No breakdowns in physical security that significantly weaken the protection against radiological sabotage or theft or diversion on special nuclear material



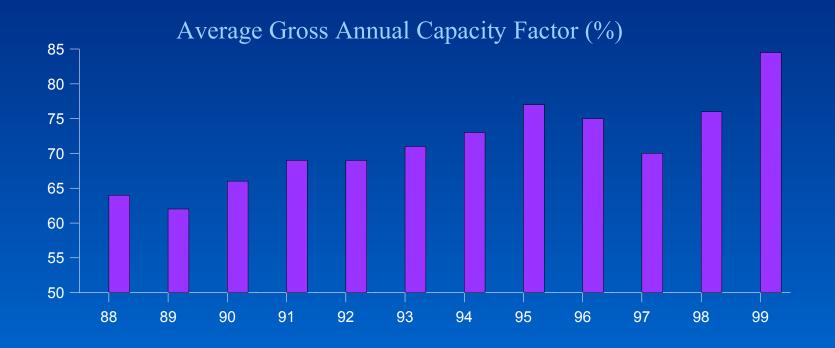
Maintaining Safety







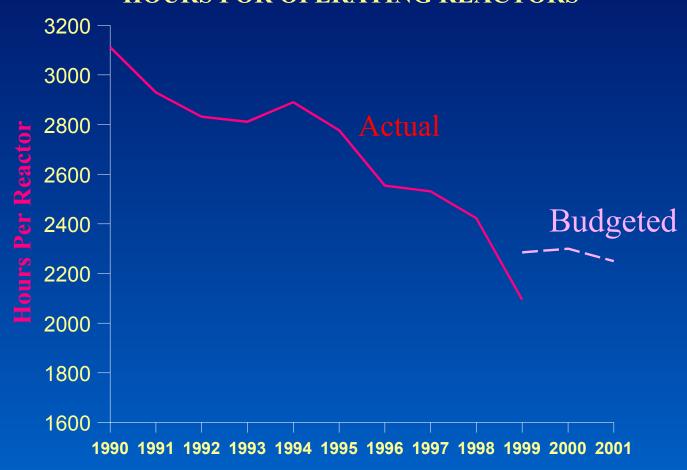
- Goal No Statistically Significant Adverse Industry Trends in Safety Performance
- Safety goals are not incompatible with economic and performance goals





Resource Trends

DIRECT HQ and REGIONAL INSPECTION HOURS FOR OPERATING REACTORS





Performance Goal Measures

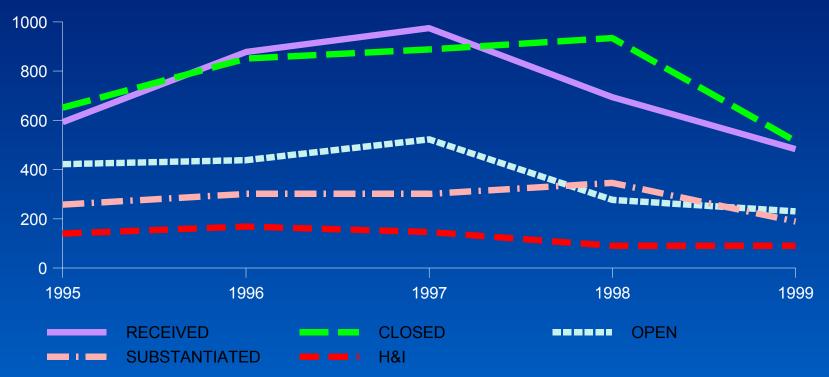
Increase Public Confidence Measures

- All milestones completed in plan to assess effectiveness of allegations program discussed in SECY-99-071
- No more than (TBD) significant regulatory issues per year for which outreach activities were not conducted in the vicinity of nuclear facilities
- Issue Directors Decisions for petitions filed under 10 CFR 2.206 within an average of 120 days from date of receipt



Increase Public Confidence - Allegations Program

REACTOR ALLEGATIONS TRENDS





Increase Public Confidence - Allegations Program

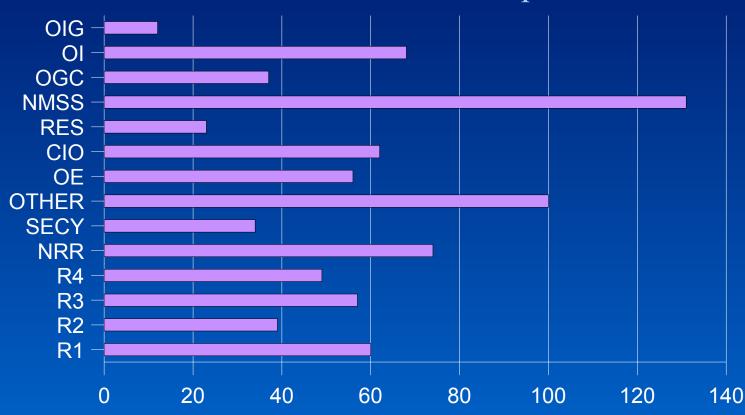






Increase Public Confidence - FOIAs

Freedom of Information Act Requests in FY99





Increase Public Confidence - Controlled Correspondence







<u>Increase Public Confidence - 2.206 Petitions</u>

Statistics of Petitions Processed under 10CFR2.206

For the Period 1/98 thru 12/99

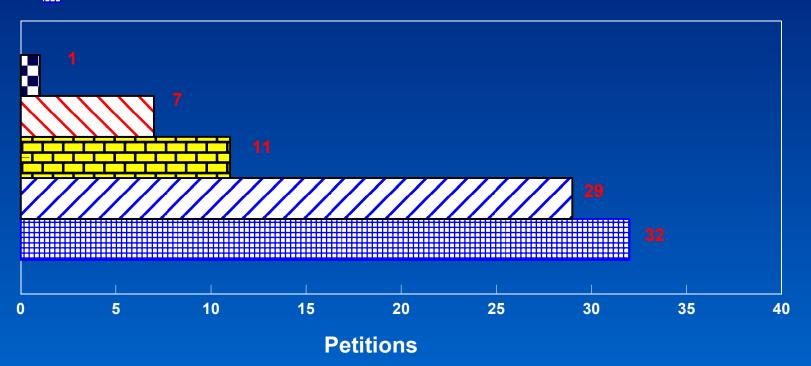
Number Granted

Numbers completed within Goal

Total Numbers of 2.206 Petitions Received

Numbers Partially Granted

Numbers Closed





Performance Goal Measures

Reducing Unnecessary Regulatory Burden

Measures

- Complete on time at least 95 percent of the reactor milestones identified in a forthcoming plan to reduce unnecessary regulatory burden
 - ► Utilize risk information and performance-based approaches
 - ► Improve and execute our programs and processes
 - ► Improve reactor oversight program
 - Actively seek stakeholder input



Nuclear Reactor Safety - Reactor Licensing

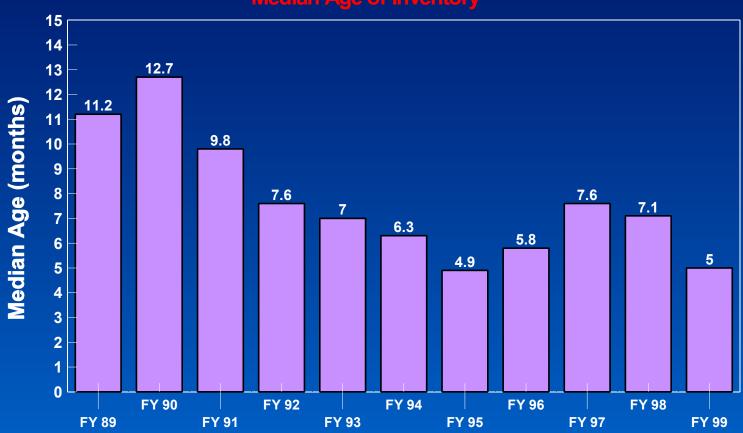
Performance Plan Target: Licensing Action Inventory < 750





Licensing Action Inventory

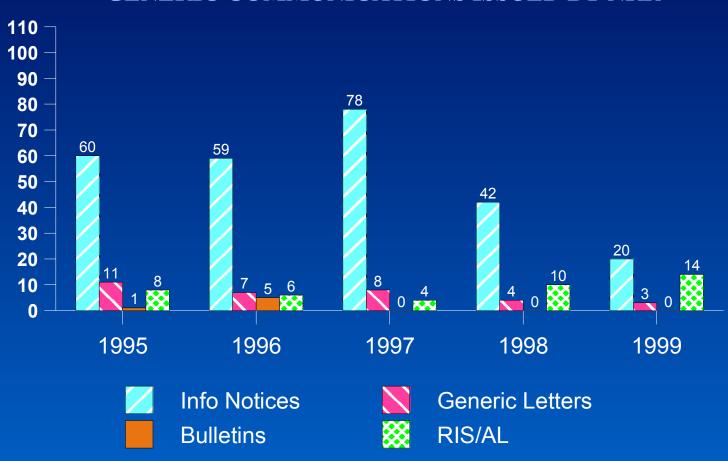
Median Age of Inventory





Regulatory Trends

GENERIC COMMUNICATIONS ISSUED BY NRR





Performance Goal Measures

Make NRC Activities and Decisions more Effective, Efficient, and Realistic

- Complete 95% of milestones in Risk Informed Regulation Implementation Plan
- Reviews of key processes
- Complete license renewal application reviews within 30 months



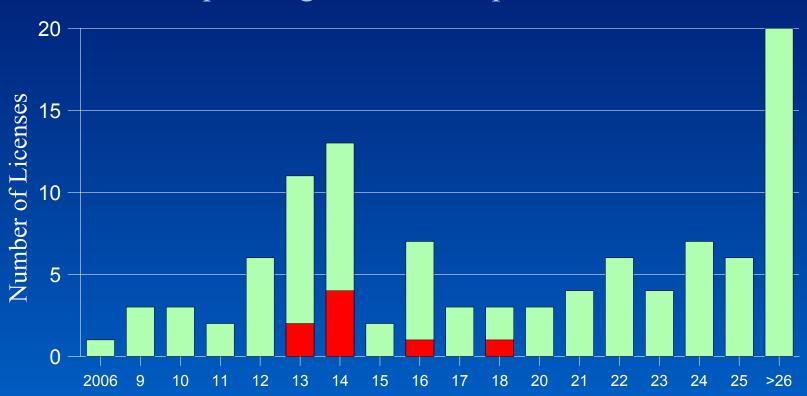
License Renewal

- Met FY 99 measure for renewal application review milestones for Calvert Cliffs and Oconee
 - ► Two applications received in FY 00 (ANO-1 and Hatch)
- Increasing interest in license renewal
- High level waste transportation addressed generically in FY 99
- Expect continued resolution of generic renewal issues in support of implementation guidance development



License Renewal

Operating Licenses Expiration Date





Risk Informing NRC Activities

- Significant progress made in risk-informing NRC activities with stakeholder involvement (i.e., staff training, improving guidance and developing improved PRA methods and tools
- Regulatory Guides, Topical Reports and/or pilot plant applications approved in the following areas
 - ► Inservice Inspection (WOG topical, Vermont Yankee, Surry, ANO)
 - ► Inservice Testing (Comanche Peak, staff evaluating lessons learned)
 - ► Graded Quality Assurance (South Texas, staff addressing barriers to full implementation)
 - ► Technical Specifications (Allowed Outage Time Extensions)
 - ► Other Licensing Initiatives (BWR Vessel Shell Weld Inspections, ANO hydrogen monitoring order, San Onofre hydrogen recombiner exemption/amendment)



Risk Informing NRC Activities

- Rulemaking Initiatives
 - ► Maintenance Rule
 - ► Alternate Source Term
 - ► Risk Informing Regulations
 - SECY 99-256, Rulemaking Plan for Risk-Informing Special Treatment Requirements
 - SECY 99-264, Proposed Staff Plan for Risk-Informing Technical Requirements in 10 CFR Part 50
 - Decommissioning



Inspection and Performance Assessment

- Risk Insights Used to Define Scope and Depth of Inspection Program
- Cornerstones of Assessment Program Derived From Contributors to Plant Risk (i.e., initiating events, mitigation, barriers, emergency planning)
- Specific Inspection Findings evaluated for safety significance using risk insights



Inspection and Performance Assessment

- FY 99 performance plan measures met for key inspection and reactor performance assessment areas
- Revised oversight process
 - ► Pilot program completed
 - ► Program monitoring to ensure consistency
 - ► Ongoing outreach involvement of NRC staff
 - ► Significant and frequent stakeholder interactions
 - ► Initial implementation at all sites in April 2000
 - ► Complete assessments of first year of initial implementation



Decommissioning Activities

- Risk-informed, integrated rulemaking effort to specify proper requirements for decommissioning plants in areas of emergency preparedness, security, insurance, operator staffing/training, and backfit rule
- Regulatory improvement initiative to include comprehensive review of all NRC regulations for applicability to decommissioning power reactors
 - ► Rules to be clarified or modified to address decommissioning
 - ► Relocation of most decommissioning rules to a dedicated part of 10 CFR



Other Initiatives

- Resource Allocations
- Safeguards Regulations
- Fire Protection
- Radiation Protection
 - ► (KI, Alternate Source Term, Control Room Habitability)
- License Transfers, Financial Reviews
- Routine Licensing Actions and Associated Processes



Regulatory Trends

Conclusions

- Generally Improving or Stable Trends
 - ► Industry and NRC
- Many Challenges Ahead
- Measure success in terms of:
 - ► 1) Maintaining Safety
 - ► 2) Increasing Public Confidence
 - ▶ 3) Reducing Unnecessary Regulatory Burden
 - ► 4) Increasing effectiveness, efficiency, and realism in NRC activities

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